

Appl. No. 10/712,644  
Reply dated February 22, 2006  
Reply to Office Action mailed December 5, 2005

1. Listing of the claims:

1. (Currently Amended) A hardware database for implementing known database protocols comprising:

a database stored in a memory;

a microprocessor operable to receive statements from a user, the statements in a known database protocol format, operable to manipulate data in the database; and

a hardware data flow engine in communication with the microprocessor and the database and operable to receive the statements from the microprocessor, the hardware data flow engine processing in hardware and to process the statements against the database.

2. (Currently Amended) The hardware database of claim 1 wherein the data flow dataflow engine further comprises: a parser receiving the standardized database statements in a known database protocol format and converting the standardized database statements in a known database protocol format into executable instructions and data objects; an execution tree processor connected to the parser parse and receiving the executable instructions from the parser, the execution tree processor creating execution trees from the executable instructions and schedules the execution trees for execution; and a graph engine connected to the execution tree processor, the graph engine operable to manipulate the database as required by the executable instructions.

3. (Currently Amended) The hardware database of claim 1 wherein the data information in the database is represented in memory as a set of in the form of graphs trees.

4. (Currently Amended) The hardware database of claim 1 wherein the hardware database is connected directly to a network using a network connection, and the microprocessor is operable to receive the statements ~~from the users~~ over the network connection.

5. (Original) The hardware database of claim 1 wherein the hardware database is connected to application servers, the applications servers providing the statement to the hardware database.

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6. (Original) The hardware database of claim 1 wherein the statements are Structured Query Language statements.

7. (Original) The hardware database of claim 1 wherein the hardware database further includes a host microprocessor connected to the microprocessor.

8. (Currently Amended) The hardware database of claim 1 wherein the processing of manipulation of the database by the statements includes one or more of reading information from the database, writing information into the database and altering information in the database.

9. (Currently Amended) The hardware database ~~management system~~ of claim 1 wherein the data flow engine is operable to ~~may~~ call routines from the microprocessor.